**Unit 3: Notes Packet 4 (Cell Membrane and Transport)**

**Check your Understanding:**

*At the end of today’s lesson, you should be able to answer the following questions:*

-What are the parts of the cell membrane and what do they do?

-What is the “Fluid Mosaic Model?”

-Describe the processes of diffusion, osmosis, facilitated diffusion, and active transport.

**Cell Membrane**

1. Regulates the passage of materials \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ the cell.
2. Parts of the Membrane:

A.

B.

C.

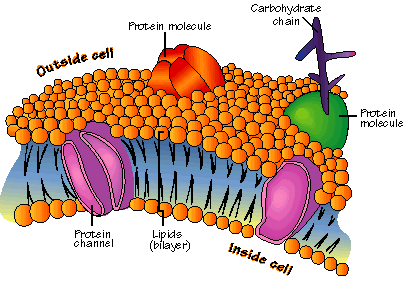
D.

1. Draw a phospholipid in the box below and label the ***Hydrophilic Head*** and ***Hydrophobic Tail***
2. Hydrophilic = “water \_\_\_\_\_\_\_\_\_\_\_\_”
3. Hydrophobic = “water \_\_\_\_\_\_\_\_\_\_\_”
4. Draw a phospholipid bilayer. Why do

Phospholipids arrange themselves in this way

In a cell membrane?

1. What is the job of membrane proteins?
2. What is the job of carbohydrate chains?
3. The ***Fluid Mosaic Model*** describes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the lipid bilayer with a mosaic of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Label the cell membrane image below with the following terms: ***inside cell, outside cell, phospholipid, protein, carbohydrate chain***



1. ***Membrane Transport:*** Define the following terms…

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Concentration |  |
| Concentration Gradient |  |
| Passive Transport |  |
| Active Transport |  |
| Selectively Permeable Membrane |  |
| Equilibrium |  |
| Vesicle |  |
| Homeostasis |  |